

AUTOMATED PART SORTING SYSTEM

ABSTRACT OF THE DISCLOSURE

A part sorting system for automatically inspecting a plurality of uninspected parts includes a feed conveyor, a sorting camera, at least one rejection valve and a computer system that includes a processor. The feed conveyor receives a plurality of uninspected parts and moves the uninspected parts through an inspection area. The sorting camera captures an image of each of the plurality of inspected parts as the plurality of uninspected parts moves through the inspection area. The rejection valve functions to direct a defective part such that the defective part is separated from inspected acceptable parts. The processor is coupled to the feed conveyor, the sorting camera and the at least one rejection valve. The processor controls the conveyor, the sorting camera and the at least one rejection valve and compares only edge pixels of the captured image to determine whether an inspected part is defective.